

Polyamide in Electronic Protection Device (EPD) Market Size, Share & Trends Analysis Report By Product (PA6, PA66, PA4,6, High Temperature Polyamide, Polyphthalamide), By Device, And Segment Forecasts, 2018 - 2025

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Abstracts

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The global polyamide in electronic protection devices (EPD) market size is expected to be valued at USD 502.8 million by 2025, according to a new report by Grand View Research, Inc., exhibiting a CAGR of 3.2% during the forecast period. Polyamide in EPD is a cost-effective and environment-friendly material. It offers performance advantages such as abrasion and heat resistance, which has been encouraging EPD manufacturers to replace other thermoset materials with polyamides in EPDs.

Rapid industrialization and technological advancements pertaining to infrastructure in developing nations are factors likely to boost the demand for EPDs, and, in turn, trigger demand for polyamides in application areas such as switch gears. Increasing utilization of electronic appliances, coupled with high repair cost incurred due to short circuits at high temperature, is also contributing to increasing adaptation of polyamides for shielding purposes in these appliances.

Polyamide manufacturers are progressively trying to align their product development strategies with ongoing trends in the electrical component market. Consumers are switching to low-cost products without compromising on safety and performance. Manufacturers of electrical protection devices are constantly experimenting with different types of materials such as polystyrene, polyester, and polybutylene. However, these efforts have failed to match the performance results offered by polyamide.

DuPont, DSM, and BASF are front-runners in terms of innovation directed to improve the characteristics and performance of polyamides catering to electrical switchgear and appliances industries. BASF and DuPont have wide and diverse product portfolios under the polyamide segment. The companies offer polyamide 6 and 66 under various brands with distinctive and crafted characteristics to suit EPD requirements.

Further key findings from the report suggest:

Polyamide in EPD is expected to generate a demand of 91.8 kilotons by the end of 2025

Asia Pacific recorded a consumption of 38.0 kilo tons of polyamide in 2016 to manufacture electronic protection devices and emerged as the largest as well as the fastest growing region

Asia Pacific is one of the regions where unsupervised blending of polyamides takes place. Blending of polyamide 6 and 66 is carried out in an unprescribed ratio, thereby altering the product demand dynamics

As of 2016, Germany was the largest market in Europe, accounting for over 33.0% of the market revenue as well as volume in the region. Germany is also the largest market in Europe for electrical and electronic products

In 2016, the MCB segment accounted for the largest share in the global market, closely followed by MCCB. India and China were the largest markets for polyamide in the EPD segment in the same year.

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